

FOLIO

UNIVERSITY OF ALBERTA
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Strategic Planning Task Force is all about serving students better – President Davenport

Draft Report released to public for further comment

There's a particular commitment contained in the Strategic Planning Task Force Draft Report, Degrees of Freedom, to serving University of Alberta students better, says President Paul Davenport.

"We're also dedicated to maintaining our outstanding research capacity and continuing to do research recognized nationally and internationally," the President explained last week to members of the media.

The President said there is an emphasis on accountability in the Draft Report. "We seek in this report to propose measures that will show how we're progressing towards particular goals, so that we're not only accountable to our internal communities, but also to our external communities."

The University invites people to comment on the Draft Report over the summer months. "We want advice on how to improve the document," the President said. In the fall, a final report will go before General Faculties Council and the Board of Governors.

Chancellor Sandy Mactaggart said, "The present trend in provincial finances indicates the University is entering a period when either it must accomplish more with less money, or it must find new sources of funding—or both.

"Demographics indicate that the future will bring an increasing number of university applicants. We have the choice of expanding to meet the need, or increasing restrictions on student access. This strategic plan clearly envisages expansion and not restriction. We intend to find the means to produce, as we do now, 50 percent of all the university degrees in Alberta."

The Chancellor said the University has to find new sources of funding and also work with other postsecondary institutions in the province to rationalize the entire system to eliminate unnecessary duplication. "We also believe that we can make better use of our facilities."

Bill Grace, Vice-Chair of the Board of Governors, said the University is going to have to deliver a product—advanced education relevant to the 21st century—and do that at less cost, in a more efficient manner and to more people. "We must become more accountable to our students and the community we serve.

"We must be accountable for the priorities and selective choices we're going to be setting, the allocation of our resources and the performance of the institution," said Grace, adding that accountability has to be measured and

the community has to be informed about the U of A's performance. The use of exit surveys, a universal course evaluation program, compiling annual data on registration, graduation and withdrawals, surveying employers, and tracking and monitoring graduates' performance will demonstrate the University's accountability, but that's only a beginning, he said.

The Chancellor said he hoped that the public would get involved in the process. Grace said every additional comment on the Draft Report would be taken very seriously, and in the fall the Board would be acting on the final report's recommendations.

Responding to questions about the University's future research role, Vice-President (Research) Martha Piper said it's clear the University is in a period when it's going to have to make some difficult choices. The University has to determine where it wants to lead, and it is in the process of determining those areas in which it is particularly strong.

On the issue of tuition fees, Grace said the Draft Report's recommendations to lift the government cap on tuition fees and turn authority over to Boards of Governors for setting fees are

tied to the recommendation to have a better student loan scheme.

Earlier in the day, Task Force member Sandy Slator, CEO of Vencap Equities Alberta Ltd, told *Folio* that the Draft Report is a good plan. He said it's essential that good organizations plan ahead in an environment that's constantly changing.

Although Slator said the entire report's recommendations are important, "one of the things I believe is particularly important is the section dealing with meeting communities' needs." It's important to understand that the community, which pays 80 percent of the costs of the University, has a vested interest in its future.

Slator suggested that psychological walls exist between various institutions in our society, and that those walls have to be torn down.

"I have a strong belief that the University is not just a business or science factory; it must serve all aspects of the community," Slator said that as an employer, he knows how important it is for a city to have a vibrant arts community, which universities help to sustain, in order to attract good employees.

Ukrainian, francophone communities laud University for its willingness to meet their educational needs

Senate meets with representatives of multicultural community at city hall

A representative from the Ukrainian Canadian Congress says the University of Alberta's long-standing relationship with the Ukrainian community has been very good.

"We're very pleased with the way the University has interacted with the Ukrainian community," says James Jacuta, who was one of a number of people from the province's multicultural community who addressed Senate last Monday.

"The University has done an outstanding job in taking a leadership role in augmenting and enhancing the diversity that exists in Canadian society," he said.

Jacuta said that compared to other institutions and the federal and provincial governments, the University would likely come out on top, in terms of its willingness to respond to the Ukrainian community's needs. He reminded the University that more than five million people in Canada speak languages other than English and French. In an increasingly global economy, there is a real opportunity for the University to teach these other languages.

Referring to the Senate's 1982 follow-up report on the task force on second languages, Jacuta said there are still problems with the

preparation of second-language teachers other than French. Noting some departments' heavier emphasis on the study of literatures than on teaching second languages, he urged the University to examine the situation.

Denis Tardif, of the Association Canadienne-Française de l'Alberta, lauded the University for its commitment to the French-speaking community's needs. He pointed out that in the wake of a recent Supreme Court decision on the rights of francophones to establish their own school boards, the Faculté Saint-Jean will be called upon to play an increasingly important role.

"The interest in French immersion has increased, the number of anglophones attending the Faculté has increased, and an increasing number of French schools will also increase the number of Franco-Albertans attending the Faculté," he said, "and the Faculté's excellent reputation also attracts numerous students from outside the province.

"It is very important for us to ensure the Faculté's harmonious development," and to that end, the recent establishment of a master's program is a step in the right direction. Securing funding for the program is the next step, he said.



Alderman Leroy Chahley extends greetings to the University Senate on behalf of the City of Edmonton. Senate held its meeting at the new city hall on Monday.

Tardif added that the francophone community represents about 2.5 percent of Alberta's population, but the Faculté receives about one percent of the University budget. He said the Faculté should receive more money.

"The problem with that comparison," responded President Paul Davenport, "is that we've got francophone students in all our Faculties. We want to be sure that in serving

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June Kaida heads Native Student Services

New Director wants to maintain access for aboriginal students and retain those students

The new Director of Native Student Services says the most important thing NSS can do for aboriginal students is to provide them with top-quality service. That's number one, says June Kaida, who had been Acting Director since last July.

"One of our major functions will be to ensure that aboriginal students also receive good service in the various Faculties," says Kaida, who was responsible for the office's successful Transition Year Program (TYP) for two years before becoming Acting Director.

Kaida expects her office will work more closely with the Faculty advisors, advising those people on the needs of aboriginal students. "I think we'd be doing aboriginal students a disservice if we led them to believe we [NSS] can meet all their needs. We have to let students know about all of the provisions in place."

Kaida is taking charge at a critical time. Close to 400 aboriginal students now attend the University. About 70 percent of the TYP program students [about 50 students] register at the U of A, and increasingly—in marked contrast to the general University student profile—more and more younger aboriginal students are enrolling in the University. Kaida believes this reflects the fact that increasing numbers of aboriginal students are graduating from high school.

While she feels that the University has made substantial progress in the area of access for aboriginal students, Kaida says that it still has work to do in terms of retaining those students. Aboriginal students drop out for a diversity of reasons. For example, some run out of money, some find jobs in their communities and others have to take a break from the pressures of university life.

Noting that the retention rates in second and third year are weak, Kaida wants to examine the establishment of a buddy system, so new students can be paired with students who

already know the system. She also wants to consider the establishment of a peer advisory group and she would like to see more people from the community serve on NSS' advisory committee.

Kaida points out that until three years ago, most aboriginal students were enrolled in Arts and the Native Studies Program. Now, they are still heavily represented in those areas, but they've earned places in a smattering of other departments. That's meant the office's academic advisors and director have had to respond to that trend.

Born in Tanzania, Kaida earned her BSc at Dar-es-Salaam. She moved to Kenya in 1975 where she taught for two years. Kaida and her husband Larry moved to Edmonton in 1977. She studied analytical chemistry in a diploma program here at the U of A before accepting a job in 1982 at Blue Quills Native Education Centre. There she coordinated the university-level programming for eight years.

"We did a lot of good things during that time," recalls the 43-year-old woman, who speaks Swahili and English, and who grew up speaking Sukuma, an indigenous African language. "Working very closely with aboriginal people, we brought in a lot of University of Alberta and Athabasca University courses."

Kaida's appointment as Director of Native Student Services did not go unchallenged. Some aboriginal students thought a North American aboriginal person should have been given the position. Kaida says she understands some of those students' concerns, but she points out that she has had exemplary relations with aboriginal students throughout her career. "My hope is that our major focus will be on serving students—and these students deserve the best."

"I certainly see June as an indigenous person who can see some of the problems we're experiencing," says aboriginal student Kathy McKinnon.

NSS has a director, Transition Year Program coordinator, student advisor, administrative assistant, receptionist and Student Ambassador Program coordinator. It receives about \$200,000 annually from the University and raises about \$150,000 annually from external sources.

According to Dean of Student Services Peter Miller, Kaida was largely responsible for TYP's rapid expansion and enormous success. "As Acting Director, she provided outstanding leadership for NSS and I'm confident she'll administer the unit effectively."

"It's really the responsibility of all of us at the University to make it possible for aboriginal students to succeed here and for us to provide as much support as we can for aboriginal students," says Kaida.

"What impressed the selection committee was Kaida's vision for the future of the of-



Director of Native Student Services June Kaida

vice," says Dr. Miller. "It went well beyond the TYP to encompass a sense of the future needs of aboriginal students on campus."

Leave the arms of Morpheus a little earlier

Beginning this Monday and continuing to 1 September, the University's working day is 8 am to 4 pm. Those who have trouble making the adjustment can take heart from the landscape construction and maintenance crews: their day runs from 7 to 3:30.

Speaking of landscape, it's not by chance that the University is noted for its green thumb, with part of that reputation owing to the work that goes into preparing the flowers in the greenhouse before they're planted.

Two six-member crews tend to the grounds. The landscape construction crew lays sod and plants trees and flowers while the maintenance crew keeps the grass trim and waters the trees, flowers and shrubbery. Full bloom on campus translates into some 35,000 plants, says Grounds Manager Wayne McCutcheon.

Although the quantity of flowers has had to be reduced, the quality has been maintained. To reduce weeding, staff have incorporated mulches and are using covers for the plants.

Physical Plant usually hires about 10 students for the weeding, watering and mowing that does need to be done during the summer. Hiring is done between 1 and 15 May and the students work until the end of August.

The nice weather means that increasing numbers of people are biking to campus. The University has parking for about 2,500 bikes and, according to McCutcheon, there are never enough racks. In the last five years, Physical Plant has had to increase the number of racks by about 300.

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Financial need student employment program developed by CaPS and Financial Aid Centre

Intent is to encourage departments to hire students in financial need

A Financial Need Student Employment Program has recently been developed by Career and Placement Services (CaPS) and the Student Financial Aid and Information Centre.

The program, which will be piloted in 1993-94, will provide funding to departments that want to employ students who have been identified as in financial need. Full-time students willing to work part-time because they are experiencing financial difficulties should consider applying for positions.

To qualify for the program, students have to demonstrate financial need, a reasonably planned budget and that they have exhausted all available funding resources.

"Many departments on campus can provide valuable work experience for students, but may not have the budget dollars to fill positions," points out Donna Nordstrom, CaPS manager of recruitment services. "This program is designed to address the students' financial needs as well as the human resource needs of the department." The program will also provide students who need part-time employment during the academic year (September to the end of April) with valuable work experience.

Organizers plan to disseminate program information during the second week of May.

"There's already been great interest in the program," says Nordstrom, "but we have no idea how many applications will come in." Applications will be reviewed in August.

The program will provide a subsidy of \$6 per hour to a maximum of \$1,500 per position, and organizers are encouraging departments to add to that hourly rate if possible.

"This program will be good for students and is responsive to their needs," says Jaing Liu, the Student Financial Aid and Information Centre's emergency aid and bursary coordinator. "What we're hoping to do is to subsidize career-related employment."

"I'm very excited about this program," says Dean of Student Services Peter Miller. "There have been suggestions for several years in many quarters for the establishment of such a program." Dean Miller notes that the money for the program, about \$75,000, will be channelled from the bursary money administered by the Student Financial Aid and Information Centre.

Dr. Miller stresses the program will not be used to subsidize noncareer related employment.

During the 1992-93 academic year the financial need bursaries funds administered by the Student Financial Aid and Information

Centre totalled about \$346,000 (\$135,000 in base funding, \$100,000 a year for the next five years in a bursary account, \$100,000 allocated from the President's contingency fund in January '93, and \$11,000 in the endowed accounts). There are two bursary programs, the supplementary program and the emergency program.

It's a shame some students can't concentrate on their studies exclusively because they have to worry about their financial situation, says Liu. Increases in tuition fees and the cost of living, a shrinking job market and underfunding of student financial aid have combined to create severe hardships for some students, she explains.

CaPS Director Wendy Coffin says, "I don't have a sense that there's been an improvement in student job prospects over last year, either up or down." More employers began recruiting students at the end of March and April. "We think that's because they were waiting to actually get their budgets in place before hiring," explains Coffin, noting that last year some employers hired students before actually getting those budgets in place and were forced to let students go when funding fell through. "What we're finding is that stress levels are quite high for students."

Engineering students prepare to submit their natural gas vehicle to emissions testing

Project backed by government, University and private sector companies

Natural gas versus gasoline? No contest, say a group of University of Alberta engineering students who are only weeks away from submitting their entry to this year's Natural Gas Vehicle Challenge competition.

The students say their natural gas vehicle will be able to meet 1996 low emission vehicle standards set by the State of California. Industry analysts say that North American jurisdiction will continue to set emission standards the rest of the continent will inevitably have to follow.

Backed by a consortium of University, government and corporate sponsors, the students have converted a 1991-92 GMC Sierra 2500 pickup truck to run on natural gas fuel. The contest is sponsored by the United States Department of Energy, the Society of Automotive Engineers, the Canadian Federal Department of Energy, Mines and Resources and General Motors of Canada.

Fundamentally, the sponsors want to encourage the development of proven technology for natural gas vehicles and encourage the use of natural gas as an alternative fuel to gasoline. The vehicles will be judged based on emissions, drivability, range and performance.

According to mechanical engineering student Graeme Feltham, one of the real strengths of the U of A entry is its use of specially de-

signed natural gas storage tanks. Typically, steel tanks weigh about 130 pounds each. The tanks the U of A team is using, manufactured with a composite material and developed by EDO Canada Limited, a Calgary company which has developed the lightweight cylinder for natural gas vehicles, weigh only 30 pounds. Six of the so-called "LiteRider" cylinders, installed on the truck, weigh a combined 180 pounds.

The project, supervised by Mechanical Engineering Professors David Checkel and Douglas Dale, is a natural for the U of A. The NGV project is a logical extension of the current natural gas vehicle testing program involving Northwestern Utilities Limited, General Motors of Canada and the U of A. The facilities to do this kind of research are here, says Dr Checkel.

Northwestern Utilities is also a strong backer of the NGV project. Ron Diduch, the company's supervising engineer for new technology research and development, says the group of students has done a good job, and because the equipment and professorial expertise was already in place, the students' learning curve was considerably shortened.

"We talk a lot about environmental technology, but here it is being developed at this University," he says, pointing to the vehicle which was showcased last week to media,

University officials and industrial partners. Moreover, the students who have worked on the project will certainly have marketable skills when they hit the job market.

The students have been able to take existing made-in-Canada technology, and add a lot of ingenuity to create an economic, efficient package, he says, adding that he expects the students will do very well in the competition which will be held in Austin, Texas, 7 to 10 June.

Canadian entries in the competition have always done well. In the last two years, the University of Toronto and Concordia University have won.

There's also another competition they'll enter, that being at NGV 1994, a worldwide symposium on natural gas that will be held in Toronto.

The project is supported by eight major sponsors: Northwestern Utilities; EDO Canada Limited; Energy, Mines and Resources; Canadian Gas Association; University of Alberta; Alberta Transportation and Utilities; Automotive Natural Gas Incorporated; and Snap-On Tools. There are minor sponsors as well. They include: Allied Signal Automotive Catalyst Company; Borla Performance Industries; Corning Incorporated; Amsoil; Hoke Incorporated; Robert Bosch Corporation; Altasteel; Sherex Industries; the City of Edmonton; Gear Vendor; Chevron; MSD; Edelbrock; Crower; Hayes-Dana; NAPA Auto Parts; Automotive Machine Services Limited; Alberta Motor Association; NAIT; and Hugh McColl's.

All the sponsors have a vested interest in the promotion of natural gas vehicles. Analysts predict the North American market for these vehicles could be worth more than \$2 billion by the year 2000. The conversion of industrial



Mechanical engineering student Graeme Feltham demonstrates natural gas vehicle technology.

equipment such as forklifts and tractors to operate on natural gas as well as public transit and school buses represents other large markets. All three major North American automakers have undertaken programs to manufacture and market natural gas vehicles.

Jurisdictions such as California, facing horrendous air pollution problems, have accelerated the development of natural gas vehicles with their increasingly tough emission standards.

Religious Studies hosting three-day conference

The Department of Religious Studies will host the 1993 annual meeting of the Pacific Northwest American Academy of Religion/Society of Biblical Literature.

This is the first since its inception more than 20 years ago that the organization has met in Edmonton. Dates for the meeting are 6 to 8 May.

The Pacific Northwest AAR/SBL represents scholars in all subdisciplines of the field of religion in Alaska, the Yukon, British Columbia, Alberta, Washington, Oregon, Idaho and western Montana. The meeting provides an opportunity for scholarly exchange and

development through two plenary sessions, and a day and a half of section meetings for groups in Hebrew Scriptures, New Testament and Hellenistic Religions, Theology and Philosophy of Religion, Religion and Society, Women and Religion, History of Religions, History of Christianity, and Aesthetic Dimensions: Religion, Literature, and Spirituality.

U of A faculty who will address the meeting are James Linville, Randi Warne, Eva Dargyay, Francis Landy, David Goa, Christopher Thrasher, Sandy McIntosh, and Winnie Tonn.

Good response to call for naming online catalogue, say librarians

There has been a very good response to the call for suggestions to name the catalogue of the Library's new online system.

Folio readers were asked recently to suggest names for the catalogue. The Library is now in the process of choosing a name from the many submissions.

It's not an easy task, however. The Library must consult with the NEOS consortium which will be using the catalogue. And since the name will be seen well beyond the local area once the catalogue is on the Internet, the Library has been advised to have the name

checked on trademark databases and then registered.

This avoids the risk of being asked not to use the name by another organization that uses the same or similar name. The Library is also working on a visual design to accompany the new name. Once these remaining tasks have been completed, the Library will be able to break the suspense.

The Library expresses its thanks to everyone who helped in the process and to everyone who made suggestions.

Nothing beats planning ahead

Faculty of Engineering co-hosting huge conference next June

Frank Huband and Dyanne Hughes are names that will be ringing a lot of bells with the Faculty of Engineering and the Edmonton Convention Centre.

Huband is executive director of the American Society for Engineering Education (ASEE), and Hughes is manager of ASEE Meetings and Conferences. They were in Edmonton 18 to 21 April to sort out details for the 1994 ASEE conference which will be held in the city next June. About 2,500 delegates are expected.

Over the next several months we'll (Engineering instructors) be organizing technical tours and helping develop the technical program, said Bill Sproule (Civil Engineering),

local chairman for the ASEE conference and the Canadian Conference on Engineering Education which is being held here at the same time. The Convention Centre will look after the social aspects of the two conferences, he said.

It's expected that the CCEE will attract far fewer people, likely on the order of 200 to 250. Some of the technical sessions will coincide with those of ASEE and the closing banquet is open to all delegates.

The 1993 ASEE conference will be held at the University of Illinois at the end of June, and Dr Sproule and representatives of the Convention Centre will be there to help promote the 1994 conference.



Advanced Education and Career Development Minister Jack Ady opens I.D.E.A.S., an exhibition of industrial design by students from the Department of Art and Design's Division of Design Studies. I.D.E.A.S. continues until 23 May in FAB Gallery.

A day in the life of a principal ... on the University of Alberta campus

Successful computer-based principal's tutorial leading to development of another

Stacey Metzger has just been appointed principal of Pembina Elementary School. She's spoken to the superintendent and the previous principal, and visited the local cable television station to learn more about the community she'll be working in. She's reviewed the files on her teaching staff and support staff. She's ready to go to work.

However, Stacey Metzger will never set foot in that mythical school. She'll be going to work in the carrel area on the second floor of the Education Building on the University of Alberta campus. But why?

Well, Stacey Metzger is really one of about 10 to 12 archetypical Stacey Metzgers who typically enroll in the graduate level Educational Administration course 595, The School Principalship: Seminars and Simulations. The class includes teachers, vice-principals, superintendents and principals, most of whom are earning their MEd degrees.

Students combine traditional seminars with the more unorthodox computer-based simulations, designed by Educational Administration Professors Bill Maynes and Gordon McIntosh and Director of the Instructional Technology Centre David Mappin. The computer-based simulation utilizes a computer, videodisc machine and telephone. Using these tools, the students confront daily elementary school situations and are asked to solve problems and make decisions.

"What we're trying to do is to recreate a real elementary school environment, and for many learners this comes close to that," says Dr McIntosh. "By recreating work situations, we've created a basis for learning that can't be

remotely approached from simply learning from texts." (The computer-based simulations aren't a substitute for texts, Dr McIntosh emphasizes.)

The simulations are powerful ways of getting students to examine just what kind of approach they use to make decisions and solve problems. Adds Mappin, the students in the class learn from one another's experiences—often learning that there are other legitimate ways of tackling situations.

The researchers acknowledge it's the next best thing to the real thing, but they say experiential learning is a good way to learn. "We think there's an unspoken learning contract," says Dr Maynes. "Our side of it is to make the simulation as real as possible, but students at some point have to buy into whatever extent they want to. Most do and they feel they're Stacey Metzger, principal of Pembina Elementary School. A few keep it at arm's length; it's safer."

Dr McIntosh says there are several different technologies at work here. "There is a real person on the other end of the telephone line, and as principal the student is often required to respond immediately in emotion-laden situations." In one case, someone attempts to lure a child into a car. "We arrange for a real reporter to call and demand information," explains Mappin.

Now that the technology has proven itself, the researchers are developing a similar simulation for the junior high school. Graduate students interviewed a large number of junior high principals in the metro Edmonton area, and those principals have served as

sources for the development of the new simulation.

Those principals were asked to cite actual challenging or difficult situations. The script for the simulation was then written from those examples, and the principals were

"What we're trying to do is to recreate a real elementary school environment, and for many learners this comes close to that. By recreating work situations, we've created a basis for learning that can't be remotely approached from simply learning from texts."

*Educational Administration Professor
Gordon McIntosh*

asked, "Is this what it's like?" The researchers learned from principals that the elementary simulation was a little bleaker than reality, Dr McIntosh relates. "We didn't mind it being tougher than the typical day."

"Those checks have really been validated by practicing teachers who come into the course and say, 'I know where that problem comes from,' or 'I know who you modelled that teacher on,'" explains Mappin. "Of course, we've often never heard of the teachers or situation they cite."

In fact, says Verne Evans, superintendent of schools for High Prairie School District #48,

who took the course a few years ago, the simulations are very realistic. "You run into these situations at schools all the time."

Students take the course after they've completed basic educational administration courses, so they have theoretical underpinnings—and, of course, many of the students have a great deal of experience before they take the course. Not all of the course sessions are simulations or debriefings of simulation sessions. The course includes more traditional instructional methods as well.

This is the group's third year of developing the junior high simulation. None of them are able to work on the project fulltime. They're hopeful, however, that the junior high simulation will be done by early next year. "This has taken such time and effort to create simulations of the quality we have developed," says Dr McIntosh.

The group used the professors' time, students' time, the Faculty's facilities, cast members' time and \$50,000 from Alberta Education to develop the first simulation, which was filmed at Meyokumin School in Mill Woods. They've yet to choose a site for the junior high simulation.

Evans, who was a principal in two different schools before going into administration, says the elementary school course is excellent. "If our system was closer to the city, I would encourage our administrators and those hoping to become administrators to take the course."

Computer tutorial another way to learn province's soils

Program allows students to explore soil/landscape relationships

The Department of Soil Science is using innovative computer technology to supplement what students receive during lectures and in the field.

Faculty Service Officer Tim Martin has developed Soils of Alberta, a computer-based tutorial. "It is unlikely computer simulations will ever replace the need for field experience, despite the potential of virtual reality technology, but current instructional technology should permit us to supplement field experience through computer-based simulations and tutorials."

"While the fundamental principles [of soil science] can be outlined in lectures, understanding comes from months or years of field observation," says Martin.

The basic idea of Soils of Alberta is to present a way in which students can explore soil/landscape relationships extensively.

Students enrolled in the department's Soils 310: Introduction to Soil Science can simply sit down in front of Macintosh or DOS computers, call up the program and select locations on a provincial map. The program provides the student with a likely soil profile for that spot and details climatic zones, surficial geology, vegetative zones and soil zones.

The tutorial, written on Authorware Professional software, includes introductory notes, processes and horizons, factors and profiles, landscapes and classifications and an

evaluation of the tutorial. Working primarily on the development of the tutorial, it took Martin four months to put it together. It's possible the tutorial will be updated and improved as well. Improved graphics and colour will be incorporated.

The interactive nature of the tutorial is one of its real strengths, says Martin, because students can explore on the computer the concepts they learn in class. One of the tutorial's weaknesses is that it

doesn't include enough self-test questions.

Other disciplines such as geology, forestry and land-use management could find the model upon which the tutorial is based very useful, Martin suggests. Soils of Alberta has gone off-campus as well; Olds College is using the tutorial.

Students who have responded to the tutorial's built-in questionnaire generally liked Soils of Alberta and found it useful.

Soils of Alberta



quit

Senate meeting

Continued from page 1

the various cultural communities, we're serving them throughout the University," he said, adding that the Faculty has an excellent reputation.

"I'm just delighted," the President continued, "that the Senate has set aside an afternoon to meet with the multicultural community of Edmonton and Alberta, to learn about their concerns and how we can serve those groups better."

"Multiculturalism and multicultural groups are a vital part of the University. As an institution we want to serve the diversity of the population that exists in Canada. We want to be a welcoming place. But quite apart from our service to multicultural groups, we believe that the richness of a University of Alberta education for all our students is greatly increased by the diversity of our student population."

Li-Fan Chen, president of the Chinese Canadian National Council, Edmonton Chapter, agreed. He said it's very important for students at the University who may have grown up in an environment where different ethnic groups do not live, to be exposed to people from different cultural experiences when they attend University.

President Davenport said the University has made a real effort, for example, to recruit aboriginal students over the last decade. "Aboriginal student enrollment should be larger, but we've made some real progress," he said, pointing out that area studies programs have flourished on campus.

Virindar Lamba, of the Sikh Society of Alberta, told Senators that postsecondary institutions are continually discovering new



Senate members were given a tour of city hall

knowledge, but the dissemination of that knowledge lags behind. Furthermore, these institutions have to teach values, so students who take their places in society can deal with the profound changes occurring.

Other presenters at the meeting included: Donna Von Hauf, Edmonton Immigrant Services Association; Lyle Donald, Metis Association; Roman Petryshyn, Grant MacEwan College; Nellie Carlson, Native Council of Canada (Alberta); and, Steve Ramsankar, principal, Alex Taylor Community School.

Ramsankar asked, what is the University doing to prepare teachers who will work in inner city schools?

Advanced Engineered Materials Centre encouraging University-industry collaboration

Holds first Canadian Utilities Ltd Distinguished Lectureship Series

The recently established Advanced Engineered Materials Centre is helping the University strengthen its capability in materials science and engineering, says the Dean of Engineering.

Addressing the Centre's first Canadian Utilities Limited Distinguished Lectureship Series 21 April, Dean Fred Otto said, "We are doing this in recognition that advanced materials is an enabling technology that can assist Canada's industrial efforts to create wealth and to be competitive in a global economy."

Research is being conducted in a broad range of areas, including ceramics, biomaterials, electronic materials, thin films, metals, composites and polymers, the Dean explained, noting that to date 39 professors from five Faculties are members of the Centre. They are supervising 64 graduate students and 38 research associates and postdoctoral students.

Alberta Economic Development and Tourism Deputy Minister Al Craig said a major part of the province's future lies on campuses of educational institutions, inside research facilities and within Alberta industries. "I think the cornerstone of the future is strategic and operational partnerships, the kind of partnerships that have made this lectureship a reality."

He said all levels of government, research bodies, universities and private industries must work together towards the common goal of diversifying the provincial economy.

"I think our Faculty of Engineering has been a leader in showing us how to build those partnerships," said President Paul Davenport. "If we're to remain an outstanding university, we need to build partnerships."

The Dean said, "You can appreciate that the Centre has already identified a very sig-

nificant resource at the University that is contributing to the development of new materials technologies and, most importantly, to the training of the human resources required to sustain industrial initiatives in the province."

The Centre, under the direction of Fernand Ellyin (Mechanical Engineering), is developing a three-year business plan to guide its activities. It has two industrial partners and is actively seeking others.

Part of its activities is the Canadian Utilities Limited Distinguished Lectureship Series. The Centre's first speaker was one of the leading advanced engineered materials engineers in the country, Inge Hansson, research director at Alcan International Limited's Kingston Research and Development Centre.

Canada's top investment counsellor speaking on campus

Stephen Jarislowsky will deliver this year's Princeton Developments Limited distinguished lecture in finance, 12 May, at 3:30 in the Faculty Club.

Jarislowsky is Chair and CEO of Jarislowsky, Fraser and Company Limited, a Montreal-based investment firm. He is responsible for investing billions of pension fund dollars, has been the president of five companies, chairman of two and a director of more than 20 others.

He is known as an outspoken champion of shareholder rights, contributes to business papers and journals and is a radio and television commentator.

Jointly sponsored by Princeton Developments Ltd and the Faculty's Institute for Financial Research, the Princeton Lectures provide a forum for the Faculty to reach out into the community.

Singular honour for protein researcher

Michael James receives University Professor appointment

To say Michael James has an eye for detail is to say Mario Lemieux has a knack for scoring.

A biochemist, Dr James studies the thousands of atoms that make up the structure of various medically important proteins. His goals: to detect patterns and relationships to understand better the function of such proteins and to determine how enzymes carry out their chemical reactions. The cornerstone of his research—x-ray crystallography, a technique that he pioneered in this country—allows Dr James to determine the three-dimensional structure of proteins and enzymes which, in turn, can make it easier to develop new classes of therapeutic agents.

"The sorts of things we're doing are open-ended," Dr James said, moments after accepting congratulations on his appointment as this institution's newest University Professor. (The appointment, made in recognition of Dr James's research, teaching and service as one of Canada's leading structural biologists, is effective on 1 July of this year.) One project that's high on his agenda concerns beta-lactamase, the enzyme which is produced by bacteria and which nullifies the antibiotic effects of penicillin. He describes beta-lactamase as a missile that the bacteria makes to shoot down the penicillin that's been launched, and says that he and his close-knit group of researchers want to create "an anti-missile missile."

Bacteria have developed resistance factors that make them immune to many drugs. This, of course, is cause for great consternation in the medical community. Dr James points out that when penicillin was introduced in the early 1950s, a certain few bacteria dug in their heels and continued to grow even in high concentrations of the drug. Today, if a great many kinds of bacteria were isolated, 90 per cent of them would prove to be immune to the effects of penicillin, Dr James estimates.

While a student at Oxford University in the early 1960s, he worked on the structure of a semi-synthetic penicillin molecule in the lab of Dorothy Hodgkin and was a member of her group when Professor Hodgkin won the 1964 Nobel Prize in Chemistry. Dr James's interest in beta-lactamase research was rekindled recently and he's now collaborating with

Susan Jensen (Microbiology) who supplied him with a sample of the resistance factor from *E. coli*. Natalie Strynadka, a J Gordin Kaplan postdoctoral fellow working with Dr James, then determined the three-dimensional structure of this beta-lactamase, one of the first such discoveries of its kind.

However, there was still the matter of learning how penicillin binds to beta-lactamase. The researchers contacted a group in Japan and were able to obtain a mutant that binds the penicillin molecule; it then breaks a particular bond in the penicillin but holds fast to it. The molecular complex was then crystallized, which allowed Dr James and his colleagues to understand the detailed events that take place in the breaking of the bond in the penicillin molecule.

"Michael James is an outstanding scientist who is happiest and at his best in the lab with his students and postdocs."

William Bridger, Chair, Department of Biochemistry

"We now want to use this information to try and design other inhibitors that will block out the resistance factor that destroys this class of antibiotics so that penicillin can be used once again to destroy the bacteria."

Dr James, who interacts with biochemists, microbiologists and medical microbiologists at home and abroad, is conducting similar lines of research directed against different target molecules. In collaboration with scientists at the Chiron Corporation in the San Francisco Bay area, he is involved in a project on inhibiting infections from picorna viruses, a family which includes the polio virus, rhinovirus (the common cold) and hepatitis A. This research is directed at determining the structure of an enzyme important to the life cycle of the virus. If we can develop inhibitors of this enzyme, a proteinase, we may be able to alter the course of a viral infection so that it is no longer infectious, he says.

The work with Chiron has "progressed very nicely," with much of that progress relating to the appointment of Bruce Malcolm, late of Chiron, to the Department of Biochemistry, and postdoctoral fellow Marc Allaire's recent work in establishing the three-dimensional structure of the hepatitis A proteinase molecule. Another important contributor to the project is Maia Chernaia, a researcher who is here from Moscow and who Dr James says "has a tremendous talent for inducing molecules to form crystals that we can study."

Dr James knows the value of teamwork. His research in Professor Hodgkin's lab preceded his initial work at the U of A as a postdoctoral fellow in the Chemistry Department (he did x-ray crystallography with David Hall and Ray Lemieux). In 1974, he participated in the establishment of the (U of A-based) MRC Group in Protein Structure and Function under the direction of Lawrence Smillie and Cyril Kay.

Dr James says the fact that he didn't have a background in protein crystallography was "glaringly obvious when I wrote grant applications to MRC." After three tries, he recalls, "somebody took a chance on me" and we got the money to purchase the necessary equipment.

In 1974, Dr James and his group accomplished the first protein structure determination in Canada, something that was "super exciting." Three years later, recounts Biochemistry Chair William Bridger, "they were the first in the world to obtain the structure of an aspartyl protease, penicillopepsin, and he [Dr James] proposed a novel mechanism consistent with its structure. This attracted the first rush of attention to Dr James and his work."

Dr James's group has also determined the structure of troponin C, a protein that's an important regulatory component of muscle, and he and his colleagues produced the first structure for a recombinant human renin, an enzyme which is an important drug target in the design of antihypertensives.

Dr Bridger describes Dr James as "an outstanding scientist who is happiest and at his best in the lab with his students and postdocs." He (Dr James) says he enjoys the opportunity to interact with young people and to teach, but



Michael James, Professor of Biochemistry and, as of 1 July 1993, University Professor

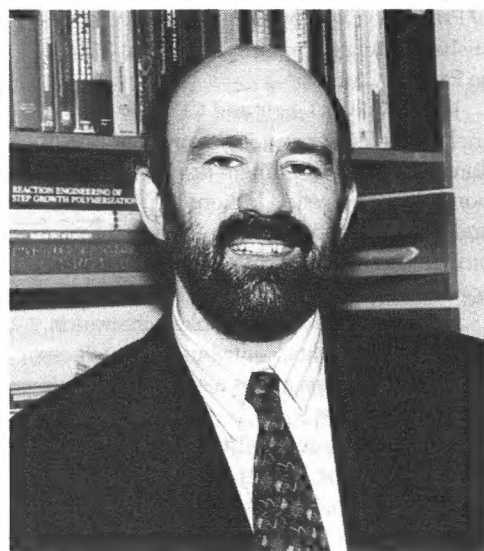
(and he says this without reservation) "I'm not terribly popular because I'm demanding and have high expectations." Then, gesturing at a desk that seems ready to buckle under several haphazard layers of books and papers, he discloses that he is not, never has been, and never will be a candidate for the Administrator of the Month Award.

Asked about the future of research in the Department of Biochemistry, Dr James says that the current level of federal grants is a bit worrisome and that even the Alberta Heritage Foundation for Medical Research is shifting from basic medical science to more clinically-oriented activities. "What we're doing may not have direct clinical application but as we understand the fundamental chemical functions of molecules, this knowledge will apply to the health care field."

"It's difficult for the public to understand that we're not necessarily working on a particular disease. We're working on a biochemical system and ultimately each of these small projects will be important in understanding the overall system."

Many chemical engineering students say David Lynch is a first-rate teacher

One of five recipients of 1993 Rutherford Award



David Lynch

Ask chemical engineering students Kim Nelson and Warren Mitchell who one of their best teachers has been at the University, and they both answer unequivocally: Chemical Engineering Professor David Lynch.

"Quite apart from his friendliness and willingness to accommodate students' needs—which are themselves rare traits among professors—Dr Lynch exhibits great insight in the nature of learning through unique and what we believe to be superior teaching techniques," the two students say in their supporting letter for Dr Lynch's successful nomination for the Rutherford Award for Excellence in Undergraduate Teaching.

"Dr Lynch is an enthusiastic teacher who makes an effort to reveal the practical side of his subject matter," Nelson and Mitchell say. "He knows exactly what he wants us to learn and he presents the material in an organized and clear fashion. He encourages participation in his classes and never makes you feel silly for asking what may be obvious to others."

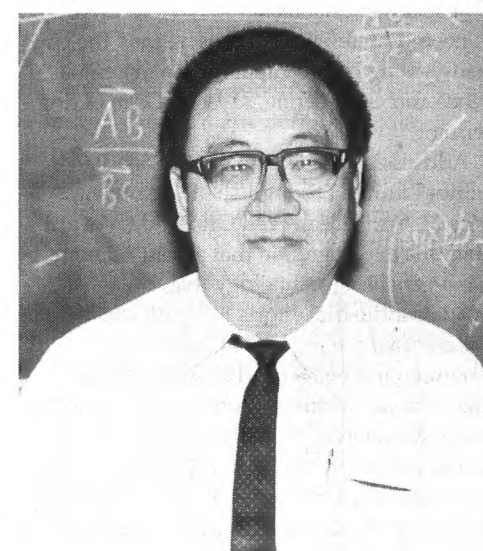
According to John Grace, Dean of Graduate Studies and professor of Chemical Engineering at UBC, "Professor Lynch sets high standards both for his students and for himself, something which was already clear when I visited your university as an accreditation visitor when he was a newly recruited faculty member more than a decade ago."

Dr Lynch returned to teaching in September 1991 from a McCalla Research Professorship and began to teach Chemical Engineering 416, Equilibrium Stage Processes. "He approached the task with great vigour and obtained a range of demonstration and audio-visual materials to enrich the course," explains Chemical Engineering Chair Murray Gray.

"For example, he contacted the major manufacturers of equipment for staged processes and obtained example materials for classroom use. He not only taught the theory rigorously, but he also presented a wealth of supporting material. Dr Lynch also used daily assignments to keep the students on pace with the lecture material."

In fact, Nelson and Mitchell say Dr Lynch's method of assigning homework is unique: usually three assignments are due throughout the week, each one being short enough to complete in one or two hours. "The homework is challenging, yet not so difficult that it becomes frustrating. We find this method to be highly conducive to better understanding."

Andy Liu's name synonymous with mathematics



Andy Liu

This is a memorable year for Andy Liu. An Associate Professor of Mathematics, he becomes Professor of Mathematics on 1 July. And on 5 May, at the Faculty Club, and in early June, at Spring Convocation, Dr Liu, along with four other teachers, will be honoured as recipients of the 1993 Rutherford Award for Excellence in Undergraduate Teaching.

Dr Liu, who joined the University as an Assistant Professor in 1980, has taught a wide variety of courses for students in the Faculties of Business, Education, Engineering and Science. His reputation has preceded him at times, which is to say a number of students have enrolled in his classes because they've heard good things about him. As Tom Lassu, a recent graduate of the Faculty of Engineering, puts it: "[Dr Liu's] reputation as an excellent instructor is the reason for which students such as myself are willing to rearrange an entire term schedule in order to attend his lectures."

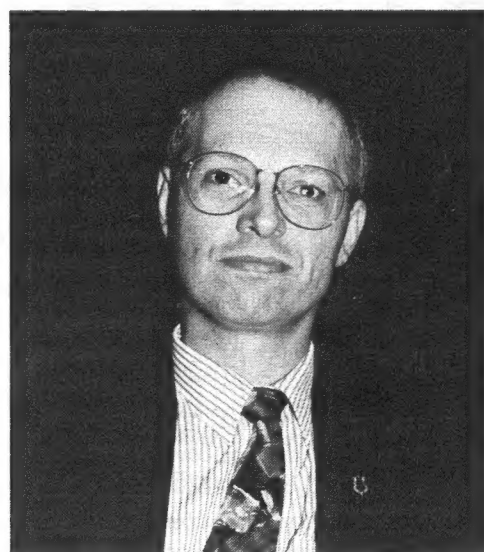
"Never have I known a professor to be so flexible in his dealings with students, regardless of when or why we needed his help. As well as establishing an open door policy, Dr Liu furnished the entire class with his home phone number which was to be used if even the slightest problem arose. I visited and called Dr Liu on many occasions, and never did I feel that I was imposing on his time."

A fellow mathematics professor praises Dr Liu's ability to organize, simplify and unify, and to explain the key ideas of mathematical argument clearly, concisely and thoroughly. He is also complimentary of Dr Liu's "almost never ending search for better ways of treating a subject" and of his "provision of solid courses with considerable depth."

Other examples of Dr Liu's well-roundedness as a teacher (and a volunteer) are his founding of a mathematics club for interested elementary and junior high school students and his organization and administration of mathematical competitions at the provincial, national and international levels.

Several years ago, he introduced, and still singlehandedly composes, edits and publishes, a mathematics newsletter called "Postulate". Its aim is to stimulate interest in mathematics among Alberta high school students and to provide teachers with material that they might wish to draw on to enhance their own courses.

Bob de Frece aims to please all the students all of the time



Bob de Frece

"I have always enjoyed teaching," asserts Rutherford Award recipient Bob de Frece. To this Associate Professor of Elementary Education and Music (he also does some teaching in the Department of Secondary Education), the process of preparing and presenting a well-structured lesson which brings

about the desired student outcomes and attitudes is a reward in itself.

Dr de Frece also derives satisfaction from staying free of the "you can't please all of the students all of the time" mentality.

"While I realize that the negative has a much more powerful impact than the positive, I have always given a great deal of attention to any student rating or comment that does not indicate total satisfaction with my teaching, and have altered my practice accordingly."

"If 29 students agree that the course objectives were clearly defined and 1 states that he or she has a neutral opinion, I immediately re-examine the stated objectives to be sure that I am adequately communicating the intent of the course. I do not consider this reaction to be 'dwelling on the negative.' Rather, I believe this constant state of questioning and re-evaluating my work to be the dynamic which keeps me alive and fresh as a teacher."

To Dr de Frece, modeling is the most powerful form of teaching. He therefore considers it his responsibility to model the behaviours and attitudes that he wants his students to embrace as part of their own professional identities.

"Bob de Frece, is a most energetic, effective teacher who empowers his students to assume personal control over their studies and careers," says Dave Sande, Associate Dean Undergraduate Student Services. "He serves as teacher, coach, mentor and confidant of his students. He gives them the confidence to publicly display their newly learned skills as choral musicians, hand-bell ringers or conductors during many concerts and recitals, both formal and informal. Bob does not ask any more of his students than he asks of himself but, neither does he ask any less. Dr de Frece has distinguished himself as a teacher not just in our department but equally in three departments and we are all aware of the accomplishment that is."

Before being appointed to the University of Alberta in 1986, Dr de Frece taught for nine years at the high school, junior high and elementary school levels. He also spent five and a half years as Fine Arts Consultant in the Edmonton Regional Office of Alberta Education, something he calls "an educational experience in education," and which gave him valuable insights to share with his students at the University.

THE CARING CORPS

Political Science students Jasmine Corinna El-Nahas and Nicholas Gammer were recently presented with the 1993 Edmonton Consular Ball Scholarships in International Studies. The scholarships, valued at \$1,000 each, constitute the only award given by any of the Consular Corps groups in Canada. Flanking Gammer and El-Nahas are Claude Berlioz, left, the Dean of the Edmonton Consular Corps, and Chancellor Sandy Mactaggart.

Photo Services

TALKS



BIOETHICS CENTRE

7 May, 12:30 pm

C Anthony Ryan, neonatologist, Royal Alexandra Hospital, and Ross Boyle, perinatal clinical specialist, University of Alberta Hospitals, "Resolving Ethical Issues in Pediatrics—A Model of Moral Reasoning." 2F1.04 Mackenzie Health Sciences Centre.

CAMPUS PRESBYTERIAN COMMUNITY

14 May, 7 pm

"Bridging the Gap: A Forum on Working Towards a Cohesive Christian Community." Panel: Ronda Bosch, Student Life Director, The King's College; David Kilgour, Member of Parliament, Edmonton Southeast; Eric McCuaig, Member, University Senate; Sheila Soder, Chairperson, Synod Youth Executive; Derek McLeod, Student and Lay Missionary; Rev John Rhoad, Minister and Chairperson, Chaplaincy Support Committee. Tentative: Ted Roberts, Director of Medicine, University of Alberta Hospitals; Jan Vallance, Professor of Education, University of Alberta. Moderator: Colin Penman, Convenor, Synod Youth Ministry Committee. Information: Pauline Grant, Chaplain, 492-7524. L-1 Humanities Centre.

CHEMISTRY

The Fraser W Birss Memorial Lectures. Vedene H Smith, Department of Chemistry, Queen's University, will give the following lectures under the general title, "Description of Electronic Structure by Density Matrices from Theory and Experiment."

10 May, 11 am

"Quantum Chemistry in Momentum Space." V-107 V-Wing.

11 May, 11 am

"Reconstruction of the Density Matrix From Experiment and the Interpretation of Chemical Bonding Therein." V-107 V-Wing.

12 May, 11 am

"Electron Pair Distributions, Electron Correlation and Chemical Bonding." V-107 V-Wing.

EDUCATIONAL PSYCHOLOGY

5 May, 7:30 pm

George Fitzsimmons, "New Directions with Attention Disordered and Hyperactive Children." Fourth Floor Atrium, Education North.

FINANCE AND MANAGEMENT SCIENCE

Princeton Developments Ltd Distinguished Lectures in Finance

12 May, 3:30 pm

Stephen A Jarislowsky, chairman and CEO, Jarislowsky, Fraser and Company Ltd. RSVP before 7 May: 492-2457. 2nd Floor, Faculty Club.

LANGUAGE RESOURCE CENTRE

3 May, 1:30 pm

Bernd Rühoff, Director, Language Resource Centre at Bergische Universität, Wuppertal, Germany, will talk about his research and the development of software for computer assisted language learning (CALL). Included will be a demonstration on the use of computers in the Tandberg multimedia teaching lab. 141 Arts Building.

MEDICAL MICROBIOLOGY AND INFECTIOUS DISEASES

4 May, 4 pm

Randall T Irvin, "Pseudomonas Adherence: - Simple Answers, - Long Trails." 2-27 Medical Sciences Building.

MERCK-FROSST CANADA DISTINGUISHED LECTURER

10 May, 9 am

Karl H Weisgraber, senior scientist and associate director, Gladstone Institute of Cardiovascular Disease, University of California, San Francisco, "Apolipoprotein E: Structure-Function." 2J4.02 Mackenzie Health Sciences Centre.

NURSING

17 May, 4 pm

Mary A Alexander, professor emeritus, College of Nursing, University of Arizona, "A Global Perspective of Nursing." Bernard Snell Hall, Mackenzie Health Sciences Centre.

PERINATAL RESEARCH CENTRE

4 May, noon

Phil Bennett, Lecturer, University of London, RPMS Institute of Obstetrics and Gynaecology, Queen Charles Maternity Hospital, London, UK, "Prostaglandins and Preterm Labour." Classroom F, 2J4.02 Mackenzie Health Sciences Centre. Sponsored by The Upjohn Company of Canada.

PHARMACY AND PHARMACEUTICAL SCIENCES

7 May, 3 pm

Roger Williams, director, Office of Generic Drugs, Department of Health and Human Services, Rockville, Maryland, "Bioequivalence: Current and Future Approaches." 6069 Dentistry-Pharmacy Centre.

OPHTHALMOLOGY

4 May, 4 pm

Michael Walter, Department of Genetics, University of Cambridge, "Analysis of Control of SRY, Testis Determining Genes." 2-115 Clinical Sciences Building

7 May, 8 am

Ray Buncic, Department of Ophthalmology, Hospital for Sick Children, Toronto, "Optic Neuritis in Childhood." 2J4.02 Mackenzie Health Sciences Centre.

POSITIONS



ACADEMIC STAFF

EXECUTIVE ASSISTANT TO THE DEAN OF NURSING

The Faculty of Nursing at the University of Alberta invites applications for the position of **Executive Assistant to the Dean**, to begin 1 July 1993. Reporting directly to the Dean, the Executive Assistant is accountable for the planning, establishment and maintenance of an administrative support system to facilitate the teaching and research functions of the Faculty. The successful applicant will have a university degree and wide experience in the field, especially in the area of budget control and preferably from the University of Alberta. S/he will possess excellent communication skills, both written and oral. Salary will be commensurate with qualifications and experience.

Applications, including curriculum vitae and the names of three referees, should be forwarded to: Dr M J Wood, Dean, Faculty of Nursing, University of Alberta, 3-129 Clinical Sciences Building, Edmonton, Alberta T6G 2G3, before 1 June 1993.

SUPPORT STAFF

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 23 April 1993. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin, the postings in PSSR and/or call the Job Information Line at 492-7205 (24 hours). Positions available as of 23 April 1993.

The salary rates for the following positions reflect adjustments in accordance with the new classification system and pay plan.

SECRETARY (Grade 5), Faculty of Medicine (Postgraduate Medical Education Program), \$1,891 - \$2,343

DEPARTMENTAL/EXECUTIVE SECRETARY (Grade 6), Anatomy and Cell Biology, (\$2,070 - \$2,580)

TECHNICIAN I (Trust) (Grade 6), Anatomy and Cell Biology, (\$2,070 - \$2,580)

DENTAL ASSISTANT (Grade 7), Dean of Dentistry, (\$2,254 - \$2,826)

ADMINISTRATIVE ASSISTANT (Grade 8), Dean of Science (\$2,437 - \$3,071)

ADMINISTRATIVE ASSISTANT (RESIDENCE LIFE COORDINATOR) (Grade 9), Housing and Food Services (\$2,636 - \$3,343)

The following positions retain salary rates in accordance with the previous classification system and pay plan.

BIOCHEMISTRY TECHNICIAN II (Trust), Biochemistry, (\$2,093 - \$2,692)

TECHNOLOGIST I (Trust/Term to April 30/94), Immunology, (\$2,273 - \$2,933)

EVENTS



EXHIBITIONS

BRUCE PEEL SPECIAL COLLECTIONS LIBRARY

Until 28 May

"How Can You Take Your Little Grocer's Shop So Seriously?"—an exhibition of books printed and published by Virginia and Leonard Woolf at the Hogarth Press. Hours: Monday and Friday, 8:30 am to 4:30 pm. B7 Rutherford South.

CLOTHING AND TEXTILES COLLECTION

Until 18 June

"Changing Suit: The Evolution of Men's Business Wear 1955-85"—an exhibition of men's wear from the collection. Hours: Monday to Friday, 8:30 am to 5 pm. Basement, Home Economics Building.

EXTENSION CENTRE GALLERY

Until 18 June

"Students' Work 1992-93"—an exhibition of works by Faculty of Extension students during the past year.

Gallery hours: Monday to Thursday, 8:30 am to 8 pm; Friday, 8:30 am to 4:30 pm; Saturday, 9 am to noon. Information: 492-3034. 2-54 University Extension Centre.

FAB GALLERY

Until 23 May

"IDEAS"—an exhibition of industrial design by student from the Department of Art and Design's Division of Design Studies. Gallery hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 pm to 5 pm; closed Saturday, Monday and statutory holidays. 1-1 Fine Arts Building.

MUSIC

DEPARTMENT OF MUSIC

30 April, 8 pm

Master of Music Recital—Piotr Grella-Morejko, composition. Convocation Hall.

CALL FOR PAPERS

Papers are invited for a symposium titled "Post-colonialism: Audiences and Constituencies" to be held at the University of Alberta, 1 to 3 October 1993. Submissions should address issues such as how post-colonialism is constructed and managed as a field of critical inquiry, how the rubric "post-colonial" contains or excludes different readers, and how differences among post-colonial constituencies might be negotiated. The symposium is offered as a space in which productive dialogue can take place. This dialogue would benefit not only the established scholarly community but also the remarkable number of graduate students currently engaged in research on post-colonial topics.

Abstracts of approximately 300 words should be received by 15 May. They should be sent to: Romita Choudhury, Department of English, 3-5 Humanities Centre, University of Alberta, Edmonton, Alberta T6G 2E5. Telephone: 492-7808, fax 492-8142.

ACCOMMODATIONS AVAILABLE

VICTORIA PROPERTIES - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call (604) 595-3200, Lois Dutton, Re/Max, Ports West, Victoria, BC.

MICHENER PARK - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. All enquiries welcome, 492-7044.

SALE - Belgravia, three bedroom bungalow, 1,335', fully developed basement, huge 11,000' lot, \$168,000. Ed Lastiwka, Royal LePage, 446-3800, 437-7480.

SALE - McKernan, lovely, four bedroom, two storey. Bright, modern kitchen, Durabilt windows, siding, oak floors. Excellent location, \$159,800. Ed Lastiwka, Royal LePage, 446-3800, 437-7480.

SALE - Westridge, park-like ravine location. 1 1/2 storey, 2,140', three bedrooms plus study, 3 1/2 baths. Fully renovated, many extras, \$257,000. 487-7484.

RENT - Unfurnished, two storey, three bedroom house with den on main floor. North Windsor Park, two blocks west of the University. No pets please. Nonsmokers preferred. \$1,100/month. Available immediately. 433-0646.

SUBLET - July/August, furnished, two bedroom main floor, den. Near Mill Creek Ravine. 6', 6" grand piano. \$725 includes utilities. 439-2671.

RENT - Belgravia, near University. Furnished, four bedrooms, study, fireplace, deck. \$1,200/month. September 1993 - summer 1994. 433-4439.

RENT - Sabbatical, exceptional, two bedroom condo, furnished, parking. University/Strathcona, June/July 1993 - June 1994. \$850/month. 492-2800, 439-3424.

RENT - University area, luxurious condo. Two bedrooms, den, 2 1/2 baths, fireplace, mostly furnished. Heat/hot water included. June 1, 1993 - August 1, 1994. 439-6862, Herman Schultz, 432-0470.

SALE - Riverbend, 2,200', 14x21 den/library with view. Three bedrooms, family room, wine cellar. \$209,900. 430-6797.

RENT - Close, Grandin Station, one bedroom highrise. June possession, \$550. 479-6853/478-9060, leave message.

RENT - Bright, roomy, one bedroom basement suite. 72 Avenue, 106 Street. \$390/month, includes utilities. Available 1 May. 432-1082.

RENT - Two bedroom bungalow, Glenora. Fully furnished, fireplace, 1 1/2

baths, double garage. No pets. \$950. 451-6178.

SALE - LeMarchand Tower, two bedroom condo. Two underground parking stalls, six appliances. Immaculate west view river valley. Only five minutes to University. Janice Duke, Royal LePage, 437-7480.

SALE - House in Belgravia, quiet crescent, 15-minute walk to central campus. Renovated, four/five bedrooms, family room (fireplace), eat-in kitchen, deck. 120'x55' lot. Heated garage. 436-7363, no agents.

RENT - Garneau Mews, May - September. Two bedroom luxury condo, fully furnished, underground parking. \$850/month, references, damage deposit. Prefer mature persons. 865-5310 or 431-0067.

RENT - Deluxe, fully furnished, one bedroom condo, 18th floor river view, pool, sauna. Adjacent to campus. Available May - August. 492-3633, 433-4136.

SALE - Condo living at its best. River valley, downtown view. 9929 Saskatchewan Drive. Bright exposures, large open plan, near new condition. Florence Thompson, Spencer Realty, 435-0808.

SALE - Old Glenora, three bedrooms plus family room. Character and quality, tree-lined street. Asking \$274,000. von Borstel, Spencer Realty, 435-0808.

SALE - Aspen Gardens. Redesigned kitchen, skylight in diningroom, four bedrooms. Cedar deck, trees. von Borstel, Spencer Realty, 435-0808.

SUBLET - Visiting scientists. Two bedroom apartment, University area. August. Leave message, 439-8705.

RENT - North Windsor Park. Furnished, two plus two bungalow, very spacious. Hardwood floors throughout. Quiet, treed lot. Available 1 August, negotiable one year. \$1400/month, 439-0467.



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NEEDED - Males, age 25-45 with no history of low back pain. Volunteers needed to complete master's thesis. Participation involves posture assessment, only takes 20 minutes. Contact Heather, 988-6504, for information.

STUDIO THEATRE

PRESENTS

Lilies

or The Revival of a Romantic Drama

By Michel Marc Bouchard
English Translation By Linda Gaboriau

Directed by TODD WAITE,
MFA Candidate

Designed by Lee Livingstone

MAY 6 - 15, 1993

Box Office 3-146 Fine Arts Building, 492-2495

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THE MEDIA ROOM, 1-63 FINE ARTS BUILDING
at 8:00 pm - no performance on Sunday.

WARNING: This production contains nudity.

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alternative! Heat, massage,
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Maria Krieg, spine specialist,
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Luxury; custom designed & decorated; A/C; gas fireplace; open; bright kitchen/dining; office/storage; 2 bedrooms, 2 baths; 5 appliances; low rise; elevator; 1 1/2 years old; 1158 sq. ft.; low condo fees; covered parking; \$129,900; #301, 8503 - 108 St.; (403) 439-8829 for appt.

"By Owner"

Catherine M. Fletcher D.D.S.

DENTIST

#980, 8215-112 Street
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